

PROVIDING

- Geotechnical Engineering
- Construction Materials Testing
- Environmental Site Assessments
- Drilling Services

May 8, 2000 Project No. 97664V3

Ms. Brenda Pohlmann Nevada Division of Environmental Protection 555 E. Washington, Suite 4300 Las Vegas, NV 89101-1049

RE: Results of monthly surface water sampling of the Las Vegas Wash at the Northshore Road bridge.

Dear Ms. Pohlmann:

Per your request, Geotechnical & Environmental Services, Inc. (GES) obtained a surface water sample from the Las Vegas wash on April 27, 2000 near the Northshore Road Bridge. We sent this sample, under chain-of-custody protocol, to NEL Laboratories (NEL) for laboratory analysis of perchlorate. NEL's analysis revealed a perchlorate concentration of 750 micrograms per Liter (μ g/L). The NEL report is included with this letter, along with the Perchlorate Summary Table for 2000.

In addition to the sample we collected and submitted to NEL, a split sample was collected per the request of Mr. Kevin Mayer, with the US Environmental Protection Agency (USEPA). This split sample was collected at the same time and in the same manner as the sample submitted to NEL, and was sent, under chain-of-custody protocol, to the USEPA Laboratory in Richmond, California.

Our services were performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable engineering firms in this or similar localities. No other warranty, either express or implied, is included or intended in this report. We appreciate this opportunity to provide our services. If you have any questions regarding these results, please feel free to call us at 365-1001.

Sincerely,

Geotechnical & Environmental Services, Inc.

Daniel C. Burns, C.E.M.* #1692 (Expires 10/07/2001)

Project Manager

Gregory J. DeSatz, Rue., C.E.M. #1172 (Expires 12/22/2000)

President

* "I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances."

dl

Enc:

2000 Perchlorate Summary Table

NEL Analytical Report

Dist:

1 faxed to addressee at 486-2863 1 original mailed to addressee

cc: fax to Jeff Gibson, American Pacific Corporation

cc: mail to Kevin Mayer, USEPA SFD 72, 75 Hawthorne Street, San Francisco, CA 94105

cc: to project file 97664V3

7560 W. Sahara Ave., Suite 101 Las Vegas, NV 89117 (702) 365-1001 • Fax (702) 341-7120 www.gesnevada.com

Las Vegas Wash at Northshore Road Bridge 2000 Summary of Perchlorate Concentrations

Date Sampled	Perchlorate (μg/L)				
1/27/00	569				
2/28/00	720				
3/29/00	870				
4/27/00	750				

NEL LABORATORIES

Reno · Las Vegas Phoenix · So. California

Las Vegas Division 4208 Arcata Way, Suite A • Las Vegas, NV 89030 (702) 657-1010 - Fax: (702) 657-1577 1-888-368-3282

CLIENT:

Geotechnical & Env. Serv.

7560 West Sahara Ave. #101

Las Vegas, NV 89117

ATTN:

Dan Burns

PROJECT NAME:

FPF/97664 V3

NEL ORDER ID: L0004282

PROJECT NUMBER: 97664 V3

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 4/27/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Van Wagenen

Laboratory Manager

CERTIFICATIONS

Reno

Las Vegas S. California

Idaho

Las Vegas S. California Reno Certified

Arizona

AZ0520

AZ0518 2002

AZ0605 2264

Certified Montana

Certified

California

1707

Nevada

NV033

Certified

L.A.C.S.D.

NV052

CA084

US Army Corps of Engineers

Certified

Certified

10228

NEL LABORATORIES

CLIENT

Geotechnical & Env. Serv.

PROJECT ID: PROJECT #:

FPF/97664 V3

97664 V3

CLIENT ID:

North Shore Rd. Bridge

DATE SAMPLED: 4/27/00

NEL SAMPLE ID: L0004282-01

TEST:

Inorganic Non-Metals

MATRIX:

Aqueous

REPORTING

RESULT

LIMIT

D.F.

METHOD

UNITS

ANALYZED

PARAMETER Perchlorate

750

80.

20

CA DHSM - IC

 $\mu g/L$

5/1/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: PROJECT ID: Geotechnical & Env. Serv.

FPF/97664 V3

PROJECT #:

97664 V3

CLIENT ID:

Method Blank

DATE SAMPLED: NA

NEL SAMPLE ID: 000501CLO4AQ-BLK

TEST:

Non-Metals

REPORTING

RESULT

LIMIT

UNITS

ANALYZED

Perchlorate

PARAMETER

ND

CA DHSM - IC

µg/L

5/1/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

3	"Dicked Cooke Kindard Coll 4-27-00	e)	Custody Seal intact? Y N None Temp. Condition when received good			1430 Harpo Morth Shore Rd. Bridge	nple Identification	Requested Turnaround: 15-day 2-day 7-day Other	Phone Humber: 1001 Fax Number 3W 7/20 Expects your Date:	ma Alue	GES D: Burns	Las Vegas Division • 4208 Arcela Way, Ste. A • Las Vegas, NV 89030 (702) 657-1010 • FAX: (702) 657-1577 • 1-888-368-3282	Phoenix • So. California	
	, 1720	Date/Time	·			8	Matrix Prese		1) (Box #2)			Purchase Order Number:	Project Name:	CHAIN O
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	4-27-00/172	Date/Time	A HC) E los Only B HNO, F Other C H,SQ, G. Not Preserved D. NaDH				Remarks						3	1824000

The papiny of NEL Laborations inc. is limited strictly to the grice of sample analysis for those samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling oosts and/or qualified data related to samples not received in good condition by NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature of this CoC constitutes acceptance of NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL for a second transplant of the second transplant of the responsibilities acceptance of all NEL standard transplants are measured in regular working days. Samples received at the time of sample received and the rest working days. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.

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//GT/G9ZQ/ bs:0

#F:GT 0007/G0/G0

LETTER OF TRANSMITTAL

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

7560 West Sahara Avenue, Suite 101 Las Vegas, Nevada 89117 (702) 365-1001 (702) 341-7120 (FAX)

TO:	USEPA SFD 72		DATE:	May 8, 2000
	75 Hawthorne St		PROJECT:	
	San Francisco CA 94105			
ATTN:	Mr Kevin Mayer		GES PROJECT #	97664 V3
WE ARE	FORWARDING THE ITEM	S LISTED BELOV	/ VIA:	
	MESSENGER	PICK UP	x U.S. MAIL	"NEXT DAY"
COPIES	DESCRIPTION			
1	Results of Monthly S	Surface Water Sa	mpling of LV Wash at	Northshore Rd Bridge
THESE	ITEMS ARE SENT FOR:	REVIEW SIGN & RETU	COMMENT IRN OTHER	APPROVAL USE
REMAR	KS:			
THIS M	ATERIAL IS SENT BY:	Daniel C. Burns, (C.E.M.	
	PLEASE S	IGN AND RETUR	N ONE COPY OF TRAI	NSMITTAL.
RECEIV	ED BY:	TIME:		DATE:
OTHER	DISTRIBUTION:			

If enclosures are not as noted, please notify us at once.